

## **ABSTRACT OF THE DISCLOSURE**

A fluorene-based pyrimidine-containing conjugated oligomer applied in six different layers in an OLED, respectively, used as an electron-transport emitting layer, an emitting layer, a host in the emitting  
5 layer, the ETL, a host in the electron-transport emitting layer, and a hole-blocking layer to upgrade light-emitting efficiency and regulate emitting color of the OLED.